

PATENT

Serial No. 09/286,027

Amendment in Reply to Final Office Action of April 14, 2004

IN THE CLAIMS

Please cancel claims 14-15 without prejudice, and amend claims 1 and 16 as follows:

1 1. (Currently Amended) A portable communication device
2 comprising an antenna configuration connected to a control device
3 for forming a plurality of different antenna directivity
4 configurations,
5 ~~characterized in that wherein~~ said control device comprises
6 detector means for discriminating between a transmitting state and
7 a receiving state of said communication device, for as based on
8 such states effecting various non-uniform selection patterns among
9 said plurality of said different antenna directivity
10 configurations,
11 wherein at least one of the patterns comprises first and
12 second lobes, wherein the majority of the volume covered by the
13 lobes does not intersect a user's head, and
14 wherein the lobes define an axis that is substantially
15 parallel to a direction the user is looking, the first lobe being
16 on a side facing the direction and the second lobe being on an

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17 opposite side, the first lobe being smaller than the second lobe, a
18 gap between the lobes substantially coinciding with the user's ear.

1 2.(Original) A communication device as claimed in Claim 1,
2 wherein one or more directivity configurations are excluded from a
3 particular selection pattern.

1 3.(Original) A communication device as claimed in Claim 1,
2 wherein one or more directivity configurations have non-uniform
3 preferences in respective selection patterns.

1 4.(Original) A communication device as claimed in Claim 3,
2 wherein said non-uniform preferences are subject to overruling by a
3 user person.

1 5.(Original) A communication device as claimed in Claim 1,
2 wherein said transmitting state disfavors one or more directivity
3 configurations that would expectably cause a relatively strong
4 field absorbance in nearby physical matter.

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1 6.(Original) A communication device as claimed in Claim 1,
2 wherein said control device is exclusively operational during an
3 actual communication session.

1 7.(Original) A communication device as claimed in Claim 1,
2 comprising measuring means for measuring an apparent origin
3 direction of a reception field and connected to indicator means for
4 presenting a user indication as to said origin direction.

1 8.(Original) A communication device as claimed in Claim 7,
2 wherein said measuring device measures an actual reception signal
3 strength for conversion into a parameter whose indicated value
4 varies with a deviation from an optimum orientation.

1 9.(Original) A communication device as claimed in Claim 7,
2 wherein said user indication is acoustic and/or visual.

1 10.(Original) A communication device as claimed in Claim 6,
2 wherein said user indication is through a plurality of dispersively
3 positioned discrete indicators.

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1 11. (Original) A communication device as claimed in Claim 1,
2 comprising measuring means for in said device measuring an apparent
3 origin direction of a reception field and connected to said control
4 means for controlling a main axis of a reception sensitivity
5 pattern along said apparent origin direction.

1 12. (Original) A communication device as claimed in Claim 1
2 and executed as a mobile phone device and/or as a notebook computer
3 device.

1 13. (Previously Presented) The device of claim 1 wherein the
2 patterns effected are designed to minimize radiation directed
3 toward the head of a user.

Claims 14-15 (Canceled)

1 16. (Currently Amended) A method for protecting a user from
2 radiation from a portable communication device, the method
3 comprising performing the following operations within the device:
4 discriminating between a transmitting state and receiving
5 state of the communication device,

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6 based on the state, selecting at least one non-uniform antenna
7 directivity configuration from amongst a plurality of ~~such~~ said
8 configurations,

9 forming the selected configuration such that, when the device
10 is adjacent to the user's ear, radiation is mostly directed away
11 from the user's body,

12 wherein at least one of the plurality of said configurations
13 comprises first and second lobes, wherein the majority of the
14 volume covered by the lobes does not intersect a user's head, and

15 wherein the lobes define an axis that is substantially
16 parallel to a direction the user is looking, the first lobe being
17 on a side facing the direction and the second lobe being on an
18 opposite side, the first lobe being smaller than the second lobe, a
19 gap between the lobes substantially coinciding with the user's ear.

1 17. (Previously Presented) The method of claim 16, further
2 comprising detecting an apparent direction of a reception field.

1 18. (Previously Presented) The method of claim 16, further
2 comprising providing an indication to the user that will help the

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3 user align the selected configuration in accordance with the
4 reception field.

1 19. (Previously Presented) The method of claim 16, further
2 comprising adjusting the selected configuration in accordance with
3 the reception field.

1 20. (Previously Presented) The method of claim 19, wherein
2 said adjusting is automated.